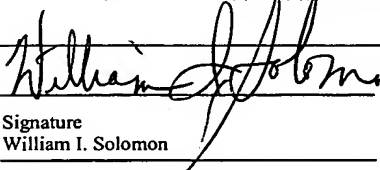


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|--|---|---|---|
| FORM PTO-1390 (REV. 10-2003) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTORNEY'S DOCKET NUMBER 1349.46042X00 |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) Not Yet Assigned 1102/2514 |
| INTERNATIONAL APPLICATION NO. PCT/JP2003/011845 | INTERNATIONAL FILING DATE September 17, 2003 | PRIORITY DATE CLAIMED | |
| TITLE OF INVENTION Method of Diagnosing Johne's Disease | | | |
| APPLICANT(S) FOR DO/EO/US Eiichi MOMOTANI Yasuyuki MORI Hirokazu HIKONO Joram Josephat BUZA | | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | |
| <p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> has been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office(RO/US)</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input type="checkbox"/> is attached hereto.</p> <p>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p>Items 11 to 20 below concern document(s) or information included:</p> <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: Figs.: 1-7; Request for Examination and Search; Credit Card Payment Form</p> | | | |

1AP20 Rec'd PCT/PTO 17 MAR 2006

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|--|--------------|---|---|---|---------------------|
| U.S. APPLICATION NO. (If known, see 37 CFR 1.51) Not Yet Assigned 2/23/04 | | INTERNATIONAL APPLICATION NO. PCT/JP2003/011845 | | ATTORNEY'S DOCKET NUMBER 134946042X00 | |
| The following fees have been submitted: | | | | CALCULATIONS | PTO USE ONLY |
| 21. <input checked="" type="checkbox"/> Basic national fee \$300 | | | | \$300.00 | |
| 22. <input checked="" type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provision of PCT Article 33(1)-(4) \$100 All other situations \$200 | | | | \$200.00 | |
| 23. <input checked="" type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2) has paid on the international application to the USPTO as an International Searching Authority \$100 International Search Report prepared and provided to the Office \$400 All other situations \$500 | | | | \$500.00 | |
| TOTAL OF 21, 22 and 23 = | | | | \$1000.00 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | \$0.00 | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | Rate | | |
| - 100 = | /50 = | | X \$250.00 | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | \$0.00 | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | |
| Total Claims | 1 - 20 = | 0 | x \$50.00 | \$0.00 | |
| Independent Claims | 1 - 3 = | 0 | x \$200.00 | \$0.00 | |
| MULTIPLE DEPENDENT CLAIMS(S) (if applicable) | | | + \$360.00 | \$0.00 | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$1000.00 | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. | | | | \$0.00 | |
| SUBTOTAL = | | | | \$1000.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | \$0.00 | |
| TOTAL NATIONAL FEE = | | | | \$1000.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + | | | | \$0.00 | |
| TOTAL FEES ENCLOSED = | | | | \$1000.00 | |
| | | | | Amount to be refunded: | \$ |
| | | | | Amount to charged: | \$ |
| <p>a. <input type="checkbox"/> A check in the amount of \$ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 01-2135 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 01-2135. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> | | | | | |
| SEND ALL CORRESPONDENCE TO: CUSTOMER NO. 020457 ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 North 17th Street, Suite 1800 Arlington, VA 22209 | | | <div style="text-align: right;">  Signature William I. Solomon <hr/> Name 28,565 <hr/> Registration No. </div> | | |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: MOMOTANI, et al.

IAP20 Rec'd PCT/PTO 17 MAR 2006

Serial No.: Not Yet Assigned

Filed: March 17, 2006

Title: Method of Diagnosing Johne's Disease

REQUEST FOR EXAMINATION AND SEARCH

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

March 17, 2006

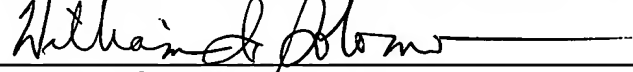
Sir:

Applicants respectfully request that a search and examination be conducted in the above-identified application. The necessary search fee and examination fee are enclosed herewith.

Please charge any shortage in the fees due in connection with the filing of this paper, including excess claim fees, to Deposit Account No. 01-2135 (1349.46042X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP



William I. Solomon
Registration No. 28,565

WIS/aam
1300 North Seventeenth Street
Suite 1800
Arlington, VA 22209
Telephone: (703) 312-6600
Fax: (703) 312-6666

ATTACHMENT

ARZ0 Rec'd PCT/PTO 17 MAR 2006

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|--|---|--------------------------------------|
| International Application No. 00/572514 PCT/JP2003/011845 | International Filing Date September 17, 2003 | Attorney Docket No. 1349.46042X00 |
|--|---|--------------------------------------|

1. International Publication No. WO 2005/029079 ***A-1
2. PCT Request;
3. Notification of Receipt of Record Copy;
4. Notification of the Recording of a Change
5. Notice Informing the Application of the Communication of the International Application to the Designated Offices
6. International Search Report